

PRASHANT PRASAD KANTH

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EDUCATION

MSc, Computer Science | Rutgers University-New Brunswick (CGPA: 4.0) Sep 2021 - May 2023
BE, Computer Science and Engineering | Bangalore Institute of Technology (Percent: 77) Aug 2013 - Jun 2017
Relevant Courses: DBMS, Data Structures and Algorithms, Artificial Intelligence, Computer Vision

PROFESSIONAL EXPERIENCE

Artrendex | New Jersey, US Jun 2022 – Sep 2022

Machine Learning Research Intern (tech: Python, PyTorch, OpenCV, Tensorboard, Numpy, Pandas, skimage)

- Improved reusability of data pipeline by generalising pre-processing and overriding PyTorch's Dataset class to reduce manual labor by 10%
- Performed transfer learning on deep learning models like VGG and achieved 94% test accuracy
- Researched on positional embedding and explored 3DCNN variation of Resnet, 'R3D-18', for art classification

Rutgers University | New Jersey, US

Feb 2022 - May 2022

Teaching Assistant

- Tutored a class of 50 students on concepts of combinatorics and probability

Oracle | Bangalore, India

Jul 2017 - Jun 2021

Cloud Consultant (tech: Oracle SQL, Relational Databases, Java, Oracle BI, MS Excel, XML)

- Lead integration and report development track from planning phase to production deployment
- Developed 50+ SQL reports to be used in client's production environment for ETL operations
- Remodelled Java automation program using SOAP and REST APIs to bring down manual effort by 20%
- Built "Text2File Generator" using Java Swing/AWT, reducing data migration time by almost 75%
- Conducted training sessions for 40+ new hires

PROJECTS

Facial Sketch to Colored Images Using GANs | (tech: Python, PyTorch, NumPy, OpenCV) Feb 2022 - Apr 2022

- Implemented 3 state-of-the-art research papers on GANs, involving U-Net Architecture
- Refined model results by removing backgrounds from 2 datasets (CUHK and FS2K) using Adobe Photoshop

Character Recognition | (tech: Python, skimage, NumPy, seaborn)

Feb 2022 - Feb 2022

- Devised a character recognition model to achieve 83% test accuracy using concepts of image processing
- Employed nearest neighbour with 14 features like hu moments and symmetrical properties for recognition

The Imitation Game | (tech: Python, Keras, NumPy, Pandas, matplotlib)

Oct 2021 - Nov 2021

- Collaborated on training an ANN and CNN model to mimic an agent movement in maze.
- Collected training data from 3-different implementations of maze runner using repeated A-star algorithm
- Achieved 98% and 99% accuracy on ANN and CNN respectively for movement prediction

Smart Health Prediction using Naive Bayes Classifier | (tech: Java, JDBC, HTML, CSS)

Feb 2017 - Jun 2017

- Integrated backend and middleware easing data access for user classification into 3 categories, Lung Cancer, Thyroid and Hypertension
- Supported in web development for data entry of new users and displaying collected statistics charts

TECHNICAL SKILLS

Languages: Python, SQL, Java, R, MATLAB, C, C++, HTML, JavaScript | **Operating Systems:** Windows, Linux, MacOS | **IDEs:** VS Code, Jupyter Notebook, Spyder | **Frameworks and Tools:** PyTorch, sklearn, skimage, OpenCV, NumPy, Pandas, PySpark, Matplotlib, Git

CERTIFICATIONS

- Introduction to NoSQL Databases – Coursera | IBM Sep 2022
- Machine Learning - authorized by Stanford online and offered through Coursera Jun 2022
- Oracle Database SQL Certified Associate Jul 2020
- Oracle Cloud Infrastructure Foundations Certified Associate Jul 2020